

Title (en)
LIGHTWEIGHT AUDIO SYSTEM FOR AUTOMOTIVE APPLICATIONS AND METHOD

Title (de)
LEICHTGEWICHTIGES AUDIOSYSTEM FÜR AUTOMOBILANWENDUNGEN UND VERFAHREN

Title (fr)
SYSTÈME AUDIO LÉGER POUR APPLICATIONS AUTOMOBILES ET PROCÉDÉ

Publication
EP 2401178 B1 20161116 (EN)

Application
EP 10746893 A 20100226

Priority
• US 2010025543 W 20100226
• US 15610509 P 20090227

Abstract (en)
[origin: US2010166211A1] A lightweight radio/CD player for vehicular application is virtually “fastenerless” and includes a case and frontal interface formed of polymer based material that is molded to provide details to accept audio devices such as playback mechanisms (if desired) and radio receivers, as well as the circuit boards required for electrical control and display. The case and frontal interface are of composite structure, including an insert molded electrically conductive wire mesh screen that has been pre-formed to contour with the molding operation. The wire mesh provides EMC, RFI, BCI and ESD shielding and grounding of the circuit boards via exposed wire mesh pads and adjacent ground clips. The PCB architecture integrally forms a resilient beam portion adjacent an edge thereof carrying a grounding pad. The major components and subassemblies are self-fixturing during the final assembly process, eliminating the need for dedicated tools, fixtures and assembly equipment. The major components and subassemblies self-interconnect by integral guide and connection features effecting “slide lock” and “snap lock” self-interconnection.

IPC 8 full level
H04B 1/08 (2006.01)

CPC (source: EP US)
H04B 1/082 (2013.01 - EP US); **H05K 1/0215** (2013.01 - EP US); **H05K 7/20436** (2013.01 - EP US); **H05K 1/141** (2013.01 - EP US); **H05K 2201/09081** (2013.01 - EP US); **H05K 2201/10386** (2013.01 - EP US); **H05K 2201/10446** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
US 2010166211 A1 20100701; **US 8264856 B2 20120911**; EP 2401178 A1 20120104; EP 2401178 A4 20120725; EP 2401178 B1 20161116; US 2012218725 A1 20120830; US 8760886 B2 20140624; WO 2010099415 A1 20100902

DOCDB simple family (application)
US 71365010 A 20100226; EP 10746893 A 20100226; US 2010025543 W 20100226; US 201213455389 A 20120425